WHAT IS CLAIMED IS:

1. A method for fabricating an electro-optical sensor, said method comprising:

providing a glass substrate comprising an optically smooth top surface and an optically smooth bottom surface;

coating the top surfaces of the glass substrate with a transparent electrode;

applying a composition of electro-optic sensor material as a layer over the transparent electrode;

applying a thin layer of adhesive over the layer of the electro-optic sensor material layer; and

laminating a pellicle as a film bearing a dielectric mirror layer to the adhesive layer such that the dielectric mirror layer is substantially optically smooth against the electro-optic sensor material.

2. The method in claim 1, wherein said electro-optic sensor material is a polymer dispersed liquid crystal (PDLC).

3. The method according to claim 1 wherein the laminating step comprises performing the lamination in a vacuum.

4. The method according to claim 3 wherein the vacuum is less than 0.8 atmosphere.

5. The method according to claim 3 wherein the vacuum is between one-half atmosphere and 0.8 atmosphere.

6. The method according to claim 3 wherein the pellicle progressively engages the adhesive layer during the laminating step, the pellicle and the adhesive layer being disposed at an angle relative to one another.

7. The method according to claim 1 wherein the pellicle progressively engages the adhesive layer during the laminating step, the pellicle and the adhesive layer being disposed at an angle relative to one another.

8. The method according to claim 7 wherein the vacuum is between one-half atmosphere and 0.8 atmosphere.